OTP	I	111	7C8!
NOV	0	8	1999 1897

ORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Atty. Docket No. 7024-394	Serial No.09/297,895
Applicant	
Sevick-Muraca et al.	
Filing Date	Group 2077

DATE 0/11/94	Chance	ve e		7664	SUBCLASS	Filing Da If approp	te riate
0/11/94	Chanc	ee	128/	/664			
			,				
			,				
FOR	EIGN I	PATENT I	OOCU	MENTS			
				CLASS	SUBCLAS		anslation
5/4/	/95	PCT			-	Yes	No
							· -
	BER D	5/4/95	DATE COUNT 5/4/95 PCT Date Count	DATE COUNTRY 5/4/95 PCT Date Consider	5/4/95 PCT — Date Considered	Date Considered	Date Considered COUNTRY CLASS SUBCLASS Transport Yes Date Considered

*Examiner: initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMA	TION DISCLOSU	RE CITA	TION	Atty. Docket 7024-394	No.		Serial No.		
E 10%	se several sheets if	necessary)					09/297,895		
J was					va Sev	vick-Muraca et	al.		
JAN 3 1 2000	Ž			Filing Date June 30, 1999)		Group 2877		
, d	/		U.S. PAT	ENT DOCU		NTS	1		
Examina	DOCUMENT NUMBER	DATE		NAME	C	CLASS	SUBCLASS	Filing Dat If appropr	e iate
PN	5,424,843	6/13/95	Trom	berg et al.	356	5/442			
Pn	5,619,324	4/8/97	Harvi	ll et al.	356	5/336			
								· -··	
					-			•	
		·		0					
								•	
		<u> </u>							
		FO	REIGN I	PATENT DO	CUI	MENTS			
	DOCUMENT NU		DATE	COUNTRY		CLASS	SUBCLASS	Yes	nslation No
								1 65	NO
									<u> </u>
Examiner				Date Cons	sider	ed	1	<u>l</u>	
122	Kosender	(W		2.	2 F	ab 20	6)		
Examiner: ini	tial if reference considered not considered. Inclu	d, whether o	not citation	i is in conforman	ce wi	th MPEP 609;	Draw line through o	itation if n	ot in

RECEIVED

FEB 0 3 2000

TECHNOLOGY CENTER 2800

	ATION DISCLOSURE CITATION	Atty. Docket No. 7024-394	Serial No. 09/297,895
((Jse several sheets if necessary)	Applicant	09/297,093
		Eva Sevick-Muraca et al. Filing Date	Group
		June 30, 1999	2877
		ENT DOCUMENTS	
*Examiner Initial	PUBLICATION		
0.0	Measurement of Particle-Size Dis		
pm	Photon Migration Techniques, Jia 15/20 May 1997.	ng, Pierce, Kao, Sevick Murac	a, Applied Optics, Vol. 36, No.
	Frequency-Domain Photon Migra		
RA	Distribution and Volume Fraction Muraca, SPIE Vol. 3000.	in Concentrated Process Strea	ms, Jiang, Pierce, Kao, Sevick-
0 000	Frequency-Domain Method for M	leasuring Spectral Porperties in	Multiple-Scatterintg Media:
- HAME	Methemoglobin Absorption Spect		
7 100 8	Franceschini, Gratton, Applied Op	otics, Vol. 34, No. 7, 1 March	1995.
THE 3			
AND THE PROPERTY OF THE PROPER			
PATENTA			
			
Examiner	,) ,	Date Considered	
	Not the land	22 56 200)	
	- Juden Der (, ,	22 700 000)	
L			

RECEIVED FEB 0 3 2000

TECHNOLOGY CENTER 2600

SURE CITA	YION	Atty. Docket No 7024-394) .	Serial No. 09/297,895		
		Applicant Eva	Sevick-Muraca			
		Filing Date		Group	.,	
	U.S. PAT		IENTS	·		
			CLASS	SUBCLASS	Filing Da	
* 1/20/81	Loos		356/336			
2/10/87	Lundb	erg et al.	356/343			
* 11/1/88	Bott		356/336			
* 10/3/89	Preiks	chat et al.	356/336			
)* 1/2/90	Niziole	ek et al.	356/336			
* 11/17/92	Igushi	et al.	356/336		,	
* 7/20/93	Hayasl	hi et al.	356/336		· · · · · ·	
5/16/95	Traine	r	356/336			
8* 8/1/95	Weich	ert et al.	356/336			
5* 10/3/95	Witt et	t al.	356/336			
* 3/26/96	Hutchi	ins et al.	356/336			
10/6/98	Sevick	-Muraca et al.	356/336			
2/2/99	Sevick	-Muraca et al.	600/476			
FO	REIGN I	PATENT DOC	UMENTS			
T NUMBER	DATE	COUNTRY	CLASS	SUBCLASS		anslation
					Yes	No
<u> </u>						
				RE	CEIV	ED
				AUG	301	999
•		Date Consid	lered	TECHNOL	OGY CENT	EH 2800
~ ~~		225	eb 200.)		
nsidered whether	or not citatio	on is in conformanc	e with MPEP 60	9; Draw line through	citation if	not in
	DATE 1/20/81 2/10/87 11/1/88 10/3/89 1/2/90 11/17/92 7/20/93 5/16/95 8/1/95 3/26/96 10/6/98 2/2/99 Insidered whether of the property of the	# 1/20/81 Loos 1/20/87 Lundb 1/1/88 Bott 10/3/89 Preiks 1/2/90 Niziolo 1/2/90 Niziolo 1/2/90 Hayas 7/20/93 Hayas 5/16/95 Traine 8/1/95 Weich 3/26/96 Hutch 10/6/98 Sevick 2/2/99 Sevick TNUMBER DATE	Applicant Eva Filing Date May 7, 1999	Applicant Eva Sevick-Muraca Filing Date May 7, 1999	Applicant Eva Sevick-Muraca et al. Filing Date May 7, 1999	Applicant Eva Sevick-Muraca et al. Filing Date May 7, 1999

, .	
	PE JO ATTY. TOCKET SERIAL NO. 09/297,895
IN	FORMATION DISCLOSURE OF ATION APPLICANT EVEN Sevick-Muraca et al.
	FORMATION DISCLOSURE CHATION (Use several sheets if necessary) (Use several sheets if necessary)
	OTHER DOCUMENTS (Inclusting Withor, Title, Date, Pertinent Pages, Etc.)
	Huaber Jiang, Keith D. Paulsen, Ulf L. Osterberg, Brian W.
.0.10	Pogue and Michael S. Patterson, Optical Image Reconstruction Using Frequency-Domain Data: Simulations and Experiments, Journal of the Optical
PR	Society of America, Sept. 1995, at 253. *
	A win Kienle, Lothar Lilge, Michael S. Patterson, Raimund
20	Hibst, Rudolf Steiner, and Brian C. Wilson, Spatially Resolved Absolute Diffuse Relectance Measurements for Noninvasive Determination of the Optical
1-7	Scattering and Absorption Coefficients of Biological Tissue, Applied Optics, May
	1996, Vol. 35, No. 13 at 2304. *
	Pi-Huan Wang, Geoffrey S. Kent, M. Patrick McCormick, Larry W.
1/20	
	with Simulated Extinction Measurements at SAGE III Wavelengths. Applied Optics, Jan. 1996. Vol. 35, No. 3, at 433. *
	Kusiel S. Shifrin and Ilja G. Zolotov, Spectral Attenuation and
n	Aerosol Particle Size Distribution, Applied Optics, Apr. 1996, Vol. 33, No. 12, at
	2114. *
	Jianhong Wang and F. Ross Hallett, Spherical Particle Size
pu	Determination by Analytical Inversion of the UV-Visible-NIR Extinction Spectrum, Applied Optics, Jan. 1996, Vol. 35, No.1, at 193. *
	Serger A. Vinogradov, Leu-Wei Lo, William T. Jenkins, Sydney M.
0,0	Evans, Cameron Koch, and David F. Wilson, Noninvasive Imaging of the Distribution in Oxygen in Tissue in Vivo Using Near-Infrared Phosphors,
	Biophysical Journal, Apr. 1996. Vol. 70, at 1609–1617. *
	Joshua B. Fishkin, Peter T.C. So, Albert E. Cerussi, Sergio
R	1 - T - C - A-colo Propoccobini and Entico (FRICO), FIEUREILLY-DUMON
	Method for Measuring Spectral Properties in Multiple-Scattering Media: Method for Measuring Spectrum in a Tissuelike Phantom, Applied Optics,
	Mar. 1995, Vol. 34, No. 7, at 1143. *
-124	Heimo Schnablegger and Otto Glatter, Sizing of Colloidal Particles with Light Scattering: Corrections for Beginning Multiple Scattering,
1 4	Applied Optics, Jun. 1995, Vol. 34, No. 18, at 3489. *
0.	Robert J. Farrell and Yen-Cheng Tsai, Nonlinear Controller for
1 AM	Batch Crystallization; Development and Experimental Demonstration, Alche
	Journal, Oct. 1995. Vol. 41. No. 10, at 2318. *
	M.A. O'Leary, D.A. Boas, B. Chance, and A.G. Yodh, Experimental Images of Heterogeneous Turbid Media by Frequency-Domain Diffusing-Photon
7	
EXAM	DATE CONSIDERED AUG 3 0 1999
EXAM	NER Dev Dev Work Dev (100 prough cital)
•EXA	MINER: Initial If reference considered, whether or not citation is in conformance with MPEP 609; braw line through citation is in conformance and not considered. Include copy of this form with next communication to applicant.
If not	In conformance and not considered. Include Copy of the formation

-

				L CCOLAL ALC
INI	OR	THE STATE OF THE S	ATTY, DOCKET	SERIAL NO. 09/297,895
		(Use several sheets if necessary) AUG 1 1 1999	REPUCANT Eva Sevick-Muraca et al FÜNG DATE May 7, 1999	GROUP
		OTHER DOCUMENTS (Including TAUTHOR		ic.)
	10	zef Vavra, Tozef Antalik and Marek Liska, A	application of	
127		Regression Analysis in Spectroturbidity Part. Syst. Charact. 12, 1995, 38-41. *	Size-Characterization Me	thods, Part.
172	R	chard C. Haskell, Lars O. Svaasand, Tsong-T Feng, Matthew S. McAdams and Bruce J. <u>Diffusion Equation in Radiative Transfe</u> America, Oct. 1994, Vol. 11, No. 10, at 27	Tromberg, Boundary Condi er, Journal of the Optica	tions for the l Society of
RN	N	in-ning Wang, Gang Zheng, and Xiao-shu Cai <u>Experimental Study of the Total Light</u> : <u>Analysis</u> , Part. Part. Syst. Charact. 11, Fe	Scattering Technique for I	Particle Size
BN	Jo	hn Dimitratos, Guillermo Elicabe, and Chris Control of Emulsion Polymerization Reac No. 12, at 1993. *	tos Georgakis, tors, AlChE Journal, Dec. 1	994, Vol. 40,
2	R	nald G. Sparks and Charles L. Dobbs, <u>The Users Backscatter Instrumentation for the On-Distribution of Emulsions</u> , Part. Part. System	Line Measurement of the	Particle Size 279-289. *
	Ja	mes R. Rawlings, Stephen M. Miller, and Wa <u>Model Indentification and Control of</u> <u>Review, Ind. Eng. Chem. Res., 1993, Vol.</u>	Solution Crystallization I	Processes: A
RN	D.	Jeffrey Lischer and Michel Y. Louge, Option Measurements of Particle Concentration Simulation, Applied Optics, Aug. 1992, Vo.	in Dense Suspensions: Ca	libration and
h~	R.	Graaff, J.G. Aamoudse, Jr. Zijp, P.M.A. Slo J. Greve, and M.H. Koelink, <u>Reduced Lig</u> <u>Spherical Particles: A Simple Approxim</u> <u>Applied Optics</u> , Apr. 1992, Vol. 31, No. 10	ht-Scattering Properties fon nation Derived from Mie	r Mixtures of Calculations.
RI	L.	H. Garcia-Rubio, Refractive Index Effects Spectra of Macromolecules, Macromolecu	on the Absorption	
5	G	illermo E. Elicabe and Luis H. Garcia-Rubio Size Distribution from Turbidimetric Me 1990, at 84. *	o, <u>Latex Particle</u> easurements, Polymer Char	racterization,
PR,		Jager, H.J.M. Kramer, E.J. De Jong, <u>On-Li</u> <u>Measurement in Dense Slurries</u> , Powder T	echnology, 1990. at 155–16	2. *
Mar.	Se	th Fraden and Georg Maret, <u>Multiple Light</u> <u>Concentrated</u> , <u>Interacting Suspensions</u> , F	<u>Scattering from</u> Physical Review Letters. It	ıl. 1990. Vol.
242		65, No. 4, at 512. *		RECEIVED
EXAMIN	•	Atom boxes	DATE CONSIDERED 2> Sels 200	, AUG 3 0 1999
'EXAM	INER:	Initial if reference considered, whether or not citatio formance and not considered. Include copy of this f	n is in conformance with MPEP &	PECHNOLOGY CENTER 2890 CHOR applicant.
if not l	n cor	formance and not considered. Include copy of It is t		

Dlip Paithankar, Jeff Kao, and Eva Sevick-Muraca, Particle Size Distribution Estimation via Solution of the Inverse Problem of
OTHER DOCUMENTS Including Author, Title, Date, Pedinent Pages, Etc.) John C. Thomas and Victoria Dinksher titler Optic Dynamic Light Scattering from Concentrated Dispersion. 3: Particle Sizing in Concentrates, Applied Optics, Dec. 1990, Vol. 29, No. 36, at 5332. * Joseph Pierce, Dilip Paithankar, Christina Hutchinson, David Taylor and Eva Sevick-Muraca, Particle Size Measurement in Suspensions through Frequency-Domain Photon Migration Measurements, Presentation to Fine Particle Society Meeting of August 25, 1995. * Michael S. Patterson, Steen J. Madsen, J. David Moulton and Brian C. Wilson, Diffusion Equation Representation of Photon Migration in Tissue (date unknown). * Akira Ishimaru, Robert J. Marks, II, Leung Tsang, Chi M. Lam, and Dong C. Park, Optical Sensing of Particle Size Distribution by Neural Network Technique (date unknown). * Eva M. Sevick-Muraca and Kavi Sharma, Measurements of Photon Migration for Particle Sizing in Optically Dense Suspensions, AIChE Journal, Nov. 1994. * Dilip Paithankar, Jeff Kao, and Eva Sevick-Muraca, Particle Size Distribution Estimation via Solution of the Inverse Problem of
Scattering from Concentrated Dispersion. 3: Particle Sizing in Concentrates,
Taylor and Eva Sevick-Muraca, Particle Size Measurement in Suspensions through Frequency-Domain Photon Migration Measurements, Presentation to Fine Particle Society Meeting of August 25, 1995. * Michael S. Patterson, Steen J. Madsen, J. David Moulton and Brian C. Wilson, Diffusion Equation Representation of Photon Migration in Tissue (date unknown). * Akira Ishimaru, Robert J. Marks, II, Leung Tsang, Chi M. Lam. and Dong C. Park, Optical Sensing of Particle Size Distribution by Neural Network Technique (date unknown). * Eva M. Sevick-Muraca and Kavi Sharma, Measurements of Photon Migration for Particle Sizing in Optically Dense Suspensions, AIChE Journal, Nov. 1994. * Dilip Paithankar, Jeff Kao, and Eva Sevick-Muraca, Particle Size Distribution Estimation via Solution of the Inverse Problem of
Brian C. Wilson, Diffusion Equation Representation of Photon Migration in Tissue (date unknown). * Akira Ishimaru, Robert J. Marks, II, Leung Tsang, Chi M. Lam. and Dong C. Park, Optical Sensing of Particle Size Distribution by Neural Network Technique (date unknown). * Eva M. Sevick-Muraca and Kavi Sharma, Measurements of Photon Migration for Particle Sizing in Optically Dense Suspensions, AIChE Journal, Nov. 1994. * Dlip Paithankar, Jeff Kao, and Eva Sevick-Muraca, Particle Size Distribution Estimation via Solution of the Inverse Problem of
and Dong C. Park, Optical Sensing of Particle Size Distribution by Neural Network Technique (date unknown). * Eva M. Sevick-Muraca and Kavi Sharma, Measurements of Photon Migration for Particle Sizing in Optically Dense Suspensions, AIChE Journal, Nov. 1994. * Distribution Estimation via Solution of the Inverse Problem of
Migration for Particle Sizing in Optically Dense Suspensions, AIChE Journal, Nov. 1994. * Dlip Paithankar, Jeff Kao, and Eva Sevick-Muraca, Particle Size Distribution Estimation via Solution of the Inverse Problem of
Will Size Distribution Estimation via Solution of the Inverse Problem Of
Multi-Wavelength Scattering Coefficient Measurements, Chem. Eng. Prog., August 1995. *
Patterson, M.S., J.D. Moulton, B.C. Wilson, and B. Chance, Applications of time-resolved Light Scattering Measurements using Phase Modulation Spectroscopy, Proc. SPIE, Int. Soc., Opt. Eng., 1203, 62 (1991). *
Eva M. Sevick-Muraca and Dilip Paithankar, <u>Process Monitoring</u> : <u>Photon Migration Measurements in Particulate Systems</u> , Fine Particle Society Meeting. August, 1995. *
1108001, 15751 *
EXAMINER RA DECEMBERS 6 DATE CONSIDERED 22 Feb 2561
*EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation is in conformance and not considered. Include copy of this form with next communication to applicant.

大学院

The second second